

## CLAIMS

1. Cushioning member with a wavy conformation comprising a plurality of elastically deformable bands (2) provided in a juxtaposed arrangement relative to each other according to a substantially longitudinal orientation, each such band (2) featuring a plurality of undulations (2a, 2b), which are inclined relative to a resting plane, and a plurality of joining strips (3, 3a) provided between two or more ones of said bands (2) and arranged roughly transversally relative to said bands, **characterized in that** said cushioning member (1) is produced as a single-piece moulding, in which said bands (2) are integral with said strips (3, 3a) and are assigned the final and definitive shape thereof, as required for the use which the cushioning member (1) is intended for.

2. Cushioning member according to claim 1, **characterized in that** it comprises one or more zones featuring differentiated elasticity.

3. Cushioning member according to claim 2, **characterized in that** said differentiated-elasticity zones are provided by means of differing cross-sections in said undulations (2a, 2b).

4. Cushioning member according to claim 2, wherein said differentiated-elasticity zones comprise one or more of said undulations (2b), each one of these being reinforced by means of at least a fin (7) that

is obtained integrally with said cushioning member (1) at the portion where the respective undulation (2b) undergoes elastic deformation.

5       **5.** Cushioning member according to any of the preceding claims or combination thereof, **characterized in that** one or more of said joining strips (3, 3a) extend across the entire transversal extension of said plurality of bands (2) so as to connect all of said bands (2) making up said cushioning member (1) with each other.

10       **6.** Cushioning member according to any of the preceding claims or combination thereof, **characterized in that** one or more of said joining strips (3, 3a) extend partially across the transversal extension of said plurality of bands (2) so as to connect two or more bands (2) with each other.

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**7.** Cushioning member according to claim 6, wherein said joining strips (3a, 3b) are arranged offset from each other.

20       **8.** Cushioning member according to any of the preceding claims or combination thereof, **characterized in that** it further comprises at least a protective or covering layer.

**9.** Cushioning member according to claim 8, obtained by over-injection onto said protective or covering layer.

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**10.** Footwear item with a cushioned sole comprising a cushioning member (1) according to claim 1 obtained directly in the shape of said sole (4).

30       **11.** Footwear item according to claim 10, in which said differentiated-elasticity zones according to claim 2 are provided in correspondence of the heel portion of the foot.

**12.** Cushioned insole insert comprising a cushioning member according to claim 1 that is obtained directly in the shape of said insole insert.

**13.** Cushioned seat, in particular for two-wheeled or three-wheeled vehicles, comprising a cushioning member (1) according to claim 1 that is obtained essentially in the shape of said seat (6).

**14.** Protective arrangement comprising at least a cushioning member (1) according to claim 1 that is obtained directly in the shape of said protective arrangement (9, 10).

**15.** Chair or seat comprising at least a cushioning member (1) according to claim 1 that is obtained directly in the shape of one or more component parts (13, 14, 15) of said chair or seat (12) adapted to support one or more parts of a human body.

**16.** Mattress comprising at least a cushioning member according to claim 1.

**17.** Pillow comprising at least a cushioning member according to claim 1.

**18.** Inflatable mattress or pillow comprising at least a cushioning member according to claim 1.